



Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

OE-KDI

Diamond DA40-TDI

MTOM = 1150 kg / 2.535 lb

A/C-Size: W: 11.9 m H: 2.0 m L: 8.0 m

OPERATOR	MFU Pilotenclub	
	A-2542 Kottingbrunn	
	Flugplatz 1, Top 1	
	www.mfu-pilotenclub.at	
	+43 2252 77340	

FPL (EXAMPLE)		
7	A/C ID	OE-KDI
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	DA40
	Wake Turbul. Cat.	L
10	Equipment	SY/S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0125
	Flight Level	080
	Route	SNU GRZ
16	Destination A/D	LJMB
	Total EET	0045
	Alternate A/D	LOWG
18	Other Info	EET/GOLVA0045
19	Endurance	04:30
	Persons on Bord	2
	Emerg. Equipm.	ELT
	A/C Colour	WHITE
	Name PIC	NAME

CONTACT	Tower LOAV	+43 1 700729201
	Maint. LOAV	+43 2252 790894
	AIS	+43 51703 3211
	MET	+43 51703 3443

FUEL	Fuel	JET A1 / Diesel
	Maximum Fuel	113.6 L / 30.0 gal
	Unusable Fuel	7.6 L / 2 gal

OIL	Engine Shell Helix	5W-30
	Oil Level Min	4.5 L / Max 6.0 L
	GearBox Spirax S4 G	75W-90

TIRE	Front Tire	29 psi / 2.0 bar
	Main Tires	36 psi / 2.5 bar

SPEED	V _{SO} (Stall- Flaps max)	49 KIAS
	V ₀ (Stall- Flaps up)	52 KIAS
	V _G (Flaps up)	68-73 KIAS*
	Max. Demo. X-Wind	20 knots

*) A/C - Mass 1000Kg - 1150Kg

COM FAIL		Clear to Land	
		Return to Landing	
		Continue Circling	
		A/D unsafe, don't Land	
		Land at this A/D and proceed to Apron - wait for Clearance	

Consult POH/AFM for "Warnings, Cautions and additional Information"

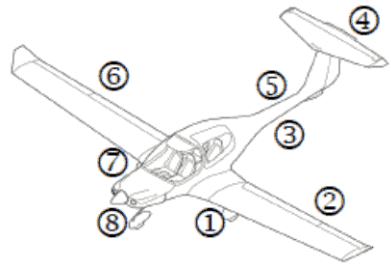
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PREFLIGHT

1 Wing Tanks & Gascolator	DRAIN
2 A/C Doc, Mass&Bal	CHECK

**CABIN CHECK**

3 Ignition Key	REMOVE
4 Canopies Both	CHECK
5 Electric Master	OFF
6 Engine Master	OFF
7 ECU Swap	AUTO
8 Electr. Equipment	OFF
9 Emerg. Fuel Valve	NORMAL
10 Circ. Breakers	ALL-IN
11 Power Lever	CHECK IDLE
B Electric Master	A ON
A CED/AED	T CHECK
T Fuel Indication	E CHECK
E Ext. Lights	R CHECK
R All Electric	Y CHECK
Y Doors Closed/Latched	B CHECK
B Doors Wrng. Inactive	A CHECK
A Pax Door	T UNLATCH
T Doors Wrng. Active	E CHECK
E Pax Door Safety Hook	R CHECK
R Pax Door Locking Bolts	Y CHECK
Y Pax Door Push Button	B CHECK
B Electric Master	A OFF
25 Foreign Objects	NONE
26 Flight Control	CORRECT
27 Trim Tab	MOVABLE
28 Baggage	SECURED

**EXTERIOR CHECK****1. Left Main Gear**

29 Gear Strut	VIS. INSP.
30 Strut Fairing	VIS. INSP.
31 Wheel Fairing	VIS. INSP.
32 Tire 36psi / 2,5 bar	CHECK
33 Tire Wear, Tread	CHECK
34 Wheel Brake	VIS. INSP.
35 Brake Line Leaks	CHECK
36 Slip Mark	VIS. INSP.
37 Chocks	REMOVE



2. Left Wing

38	Wing Surfaces	VIS. INSP.
39	Step	VIS. INSP.
40	Air Intake Lower	VIS. INSP.
41	Openings Lower	CHECK
42	Tank Drain	CHECK
43	Stall Warning	CHECK
44	Tank Filler	VIS. INSP.
45	Tank Air Outlet	VIS. INSP.
46	2x Stall Strips	VIS. INSP.
47	Pitot Probe	CLEAN
48	Ldg / Taxi Lights	VIS. INSP.
49	Wing Tip	VIS. INSP.
50	Static Dischargers	CHECK
51	Pos.Light & ACL	VIS. INSP.
52	Tiedown	CHECK, CLEAR
53	Aileron & Linkage	VIS. INSP.
54	Aileron Hinges & Pin	VIS. INSP.
55	Foreign.Obj.AileronPad	VIS. INSP.
56	Flap & Linkage	VIS. INSP.
57	Flap Hinge & Pin	VIS. INSP.



3. Fuselage (Left)

58	Canopy Left side	VIS. INSP.
59	Rear Door, Window	VIS. INSP.
60	Fuselage Skin	VIS. INSP.
61	Antenna	VIS. INSP.



4. Empennage

62	Stabilizer Contr. Surf.	VIS. INSP.
63	Static Discharger	CHECK
64	Hinges	VIS. INSP.
65	Elev. Trim, Wire	VIS. INSP.
66	Rudder Trim Tab	VIS. INSP.
67	Fin Tiedown	CHECK, CLEAR
68	Tail Skid & Lower Fin	VIS. INSP.



5. Fuselage (Right)

69	Fuselage Skin	VIS. INSP.
70	Window	VIS. INSP.
71	Canopy Right Side	VIS. INSP.



6. Right Wing

72	Flap & Linkages	VIS. INSP.
73	Flap Hinges & Pin	VIS. INSP.
74	Aileron & Linkage	VIS. INSP.
75	Aileron Hinges & Pin	VIS. INSP.
76	Foreign.Obj.AileronPad	VIS. INSP.
77	Static Dischargers	CHECK
78	Wing Tip	VIS. INSP.
79	Pos.Light & ACL	VIS. INSP.
80	Tiedown	CHECK, CLEAR
81	Wing Surfaces	VIS. INSP.
82	2x Stall Strips	VIS. INSP.
83	Tank Filler	VIS. INSP.
84	Openings Lower	CHECK
85	Tank Drain	CHECK
86	Winterkit Temp Lmt. +20°	CHECK
87	Step	VIS. INSP.



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7. Right Main Gear

88	Gear Strut	VIS. INSP.
89	Strut Fairing	VIS. INSP.
90	Wheel Fairing	VIS. INSP.
91	Tire 36psi / 2,5 bar	CHECK
92	Tire Wear, Tread	CHECK
93	Wheel Brake	VIS. INSP.
94	Brake Line Leaks	CHECK
95	Slip Mark	VIS. INSP.
96	Chocks	REMOVE



8. Front Fuselage

97	Oil Level 4,5-6 l	CHECK
98	Gear Box Oil	CHECK
99	Cowling	VIS. INSP.
100	5 Air Intakes	CLEAR
101	Propeller	VIS. INSP.
102	Spinner & Screws	VIS. INSP.
103	Nose Landing Gear	VIS. INSP.
104	Tire and Wheel	VIS. INSP.
105	Slip Mark	VIS. INSP.
106	Strut Fairing	VIS. INSP.
107	Tire Wear, Tread	CHECK
108	Wheel Fairing	VIS. INSP.
109	Tow Bar	REMOVE
110	Tire 29psi / 2,0bar	CHECK
111	Chocks	REMOVE

112	Exhaust	VIS. INSP.
113	Forw. Cabin Inlets	CLEAR
114	Antennas	VIS. INSP.
115	Gascolator	DRAIN
116	Venting Pipes	CHECK
117	Fuselage Underside	CLEAN


BEF. ENGINE START

1	Preflight Check	COMPL
2	Rudder Pedals	ADJUST
3	Passenger Briefing	COMPL
4	Seat Belts / Harness	FASTEN
5	Baggage	SECURE
6	Pax Door	LOCKED/LATCHED
7	Door Lock	UNBLOCKED
8	Front Canopy	POS. 1 or 2
9	Canopy Lock	UNBLOCKED
10	Parking Brake	SET
11	Flight Controls	FREE
12	Trim Wheel	SET T/O
13	Power Lever	IDLE
14	Power Lever Friction	ADJUST
15	Alternate Air	CLOSED
16	Alternate Static	CLOSED
17	All Electric	OFF
18	Avionic Master	OFF
19	Electric Master	ON
20	Annunciator Panel	CHECK
21	Acknowledge Button	PRESS
22	Cooling Level Warning	OFF
23	Fuel Temp. Warning	CHECK

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ENGINE START

1	Bef. Engine Start CL	COMPL
2	Strobe Light / ACL	ON
3	Power Lever	IDLE
4	Prop Area	CLEAR
Engine Start	Engine Master	ON
	Glow Indication	OFF
	Electric Master	START
	Oil Press.	CHECK 
	Warmup@Idle RPM	2 MIN
	Warmup@1400 RPM	2 MIN
	Oil & Cooler Temp	GREEN
	12 Annunciator Panel	CHECK
	13 Engine RPM	STABLE
	14 Voltage, El. Load	CHECK


BEFORE TAXI


1	Avionic Master	ON
2	Flaps all Positions	CHECK
3	Instruments	CHECK/SET
4	Avionics	AS REQ.
5	GNS430W NAV Data	CHECK
6	GI 275 Selftest	CHECK
7	Pitot On → Ammeter	CHECK
8	Pitot	OFF

TAXI

1	Taxi/Landing Lights	ON
2	Parking Brake	RELEASE
3	Brakes	CHECK
4	Flight Instruments	CHECK
5	GI 275 Instruments	CHECK

BEFORE TAKEOFF

1	Parking Brake	SET
2	Circuit Breakers	CHECK IN
3	Seat Belts/Harness	FASTEN
4	Pax Door	LOCKED/LATCHED
5	Front Canopy	LOCKED/LATCHED
6	Door Warning Light	CHECK OFF
7	Engine Instruments	GREEN
8	Circuit Breakers	CHECKED
9	Flaps	TAKEOFF
10	Trim	TAKEOFF
11	Flight Controls	FREE
12	Power 10 Seconds	MAX
13	Oil Pressure	GREEN
14	RPM 2240 / 2300	STABILIZE
15	Load Indication Stable	90-100%
16	Power Lever	IDLE
Check	ECU Test 	PUSH&HOLD
	ECU A, ECU B, Caution	BLINKING
	ECU B Caution	BLINKING
	Propeller RPM	CYCLING
	ECU A Caution	BLINKING
	Propeller RPM	CYCLING
	Caution Lights	OFF
	ECU Test Button	RELEASE
	ECU Swap	ECU B
	Engine RPM No Change	CHECK
ECU swap	AUTOMATIC	
28	Pitot Heat	AS REQ
29	Landing Light	ON
30	Parking Brake	RELEASE

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DEPARTURE BRIEFING


1 ATC Clearance	RECEIVED
2 RWY In Use	CHECKED
3 Departure Route	CONFIRM
4 Contingency Procedure	CHECKED
5 COM / NAV	PREPARED
6 Dep.Briefing	COMPLETE

LINE UP / TAKEOFF

1 Dep.Briefing	COMPLETED
2 Landing Light	On
3 Transponder	ON/ALT
4 Approach Sector	CLEAR
5 Rotate (V_R)	55-59 KIAS*
6 Climb Speed (V_X)	60-66 KIAS*


*) A/C - Mass 1000Kg - 1150Kg

CLIMB CHECK

1 Power Lever	90% 
2 400ft AGL Safe Alt	CHECK
3 Climb Speed (V_Y)	78 KIAS*
4 Flaps	UP
5 Landing Light	OFF


*) A/C - Mass 1000Kg - 1150Kg

CRUISE CHECK

1 Flaps	CHECK UP
2 Altimeters	SET
3 Power	SET
4 Fuel quantity	CHECK
5 Fuel Transfer	BALANCE 
6 Maneuver Spd V_A	108 KIAS
7 Normal Operating Spd V_{no}	129 KIAS


*) A/C - Mass 981Kg - 1150Kg 108 KIAS

DESCENT

1 Approach Briefing	COMPLETE
2 Altimeter	SET
3 GI 275 Instruments	SET
4 Fuel	BALANCE 
5 Descent Planning	COMPLETE


LANDING APPROACH

1 Power	APPROX. 30%
2 Safety Harness	FASTEN
3 Airspeed Reduce MAX	108 KIAS
4 Flaps	T/O
5 Trim	AS REQ
6 Landing Light	AS REQ
7 Approach Speed	70 KIAS

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FINAL

	1	Airspeed Reduce	71 KIAS
	2	Flaps	LANDING
	3	Final Approach Spd 	63-71 KIAS*
G A R A N T E E		Power	FULL FWD
		Airspeed	60-66 KIAS*
		Flaps	T/O
		400ft AGL Safe Alt	CHECK
		Airspeed	68-73 KIAS*
		Flaps	UP
		Airspeed	78 KIAS

*) A/C - Mass 1000Kg - 1150Kg


AFTER LANDING

	1	Power	IDLE
	2	Transponder	GND/STBY
	3	Flaps	UP
	4	Pitot Heat	OFF
	5	Landing Light	OFF
	6	Taxi / LDG Light	AS REQ

SHUT DOWN


	1	Parking Brake	SET
	2	ELT (121,5 MHz)	CHECK
	3	Flight Plan	CLOSE
	4	Avionic / Electrics	OFF
	5	Power Cooldown	IDLE 2 MIN.
	6	Engine Master	OFF
	7	Position Lights	OFF
	8	Strobes	OFF
	9	Electric Master	OFF
	10	Flight Logger	SLIDE CARD
	11	Map Light	CHECK OFF
	12	Parking Brake	AS REQ
	13	Pitot Cover	INSTALL
	14	Tiedown	AS REQ

Weight: 1150 kg / 2535 lb		Flaps: UP				
Standard						
Tanks: 106 l (28 US gal) usable fuel						
Pres. Alt.	Load	KTAS	Fuel Flow		Range	Endurance
(ft)	(%)	(kt)	(l/h)	(US gal/h)	(NM)	(hrs)
SL	100	143	33.6	8.9	326	2.3
SL	90	137	29.6	7.8	370	2.7
SL	80	131	25.8	6.8	420	3.2
SL	70	124	22.1	5.8	480	3.9
SL	60	117	18.6	4.9	552	4.7
SL	50	107	15.3	4.0	635	5.9
2000	100	145	33.6	8.9	330	2.2
2000	90	140	29.6	7.8	374	2.6
2000	80	133	25.8	6.8	424	3.1
2000	70	126	22.1	5.8	485	3.8
2000	60	118	18.6	4.9	556	4.6
2000	50	109	15.3	4.0	639	5.8
4000	100	148	33.6	8.9	334	2.1
4000	90	142	29.6	7.8	378	2.5
4000	80	136	25.8	6.8	428	3.0
4000	70	129	22.1	5.8	489	3.7
4000	60	120	18.6	4.9	561	4.5
4000	50	111	15.3	4.0	642	5.7
6000	100	151	33.6	8.9	337	2.1
6000	90	145	29.6	7.8	382	2.5
6000	80	138	25.8	6.8	432	2.9
6000	70	131	22.1	5.8	494	3.6
6000	60	123	18.6	4.9	565	4.4
6000	50	112	15.3	4.0	646	5.6
8000	100	154	33.6	8.9	341	2.0
8000	90	148	29.6	7.8	386	2.4
8000	80	141	25.8	6.8	437	2.9
8000	70	133	22.1	5.8	498	3.5
8000	60	125	18.6	4.9	569	4.3

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Weight: 1150 kg / 2535 lb		Flaps: UP				
Standard						
Tanks: 106 l (28 US gal) usable fuel						
Pres. Alt.	Load	KTAS	Fuel Flow		Range	Endurance
(ft)	(%)	(kt)	(l/h)	(US gal/h)	(NM)	(hrs)
8000	50	114	15.3	4.0	649	5.4
10000	90	150	29.6	7.8	390	2.3
10000	80	144	25.8	6.8	441	2.8
10000	70	136	22.1	5.8	502	3.4
10000	60	127	18.6	4.9	573	4.2
10000	50	115	15.3	4.0	652	5.3
12000	90	153	29.6	7.8	394	2.2
12000	80	146	25.8	6.8	446	2.7
12000	70	138	22.1	5.8	507	3.3
12000	60	129	18.6	4.9	577	4.1
12000	50	117	15.3	4.0	654	5.2
14000	80	149	25.8	6.8	450	2.6
14000	70	141	22.1	5.8	512	3.2
14000	60	131	18.6	4.9	582	4.0
14000	50	118	15.3	4.0	656	5.1
16000	80	152	25.8	6.8	455	2.5
16000	70	143	22.1	5.8	516	3.1
16000	60	133	18.6	4.9	586	3.9
16000	50	120	15.3	4.0	657	4.9

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Airspeeds for Normal Operations

TAKEOFF

A/C Mass	1000 - 1150 kg
V_R Flaps T/O	55 - 59 KIAS
V_X Flaps T/O	60-66 KIAS
V_Y Cruise Climb Flaps UP	78 KIAS

LANDING

Final APP Flaps LDG	63 - 71 KIAS
Balked Ldg Flaps T/O	60 - 66 KIAS
Max. demo X Wind	20 knots
V_{FE} max, Flaps TO	108 KIAS
V_{FE} max, Flaps LDG	91 KIAS

CRUISE

V_A Maneuvering	94 - 108 KIAS*
V_{NO} Max. Operating Spd.	129 KIAS
V_{NE} Max Airspeed	178 KIAS

Airspeeds for Emergency Operations

V_A Maneuvering	94 - 108 KIAS*
Best Glide / Flaps UP	68 - 73 KIAS
Engine Off - Best Glide / Flaps T/O	66 - 72 KIAS

*) A/C - Mass 780Kg - 980Kg 94 KIAS

*) A/C - Mass 981Kg - 1150Kg 108 KIAS



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